

10/527 078

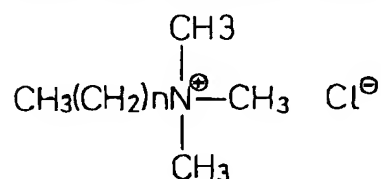
Fig.1

### STRUCTURE OF HYDROQUINONE



Hydroquinone (Hq)

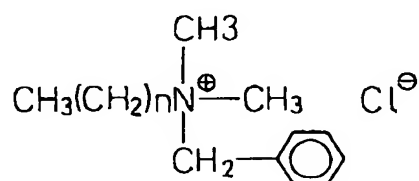
## STRUCTURES OF SURFACTANTS



n=17 Octadecyltrimethylammonium Chloride(STAC)

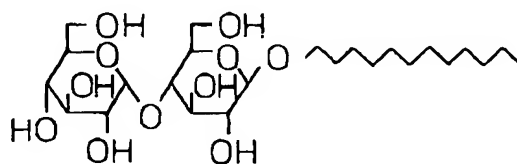
n=15 Hexadecyltrimethylammonium Chloride (CTAC)

n=13 Tetradecyltrimethylammonium Chloride (MTAC)



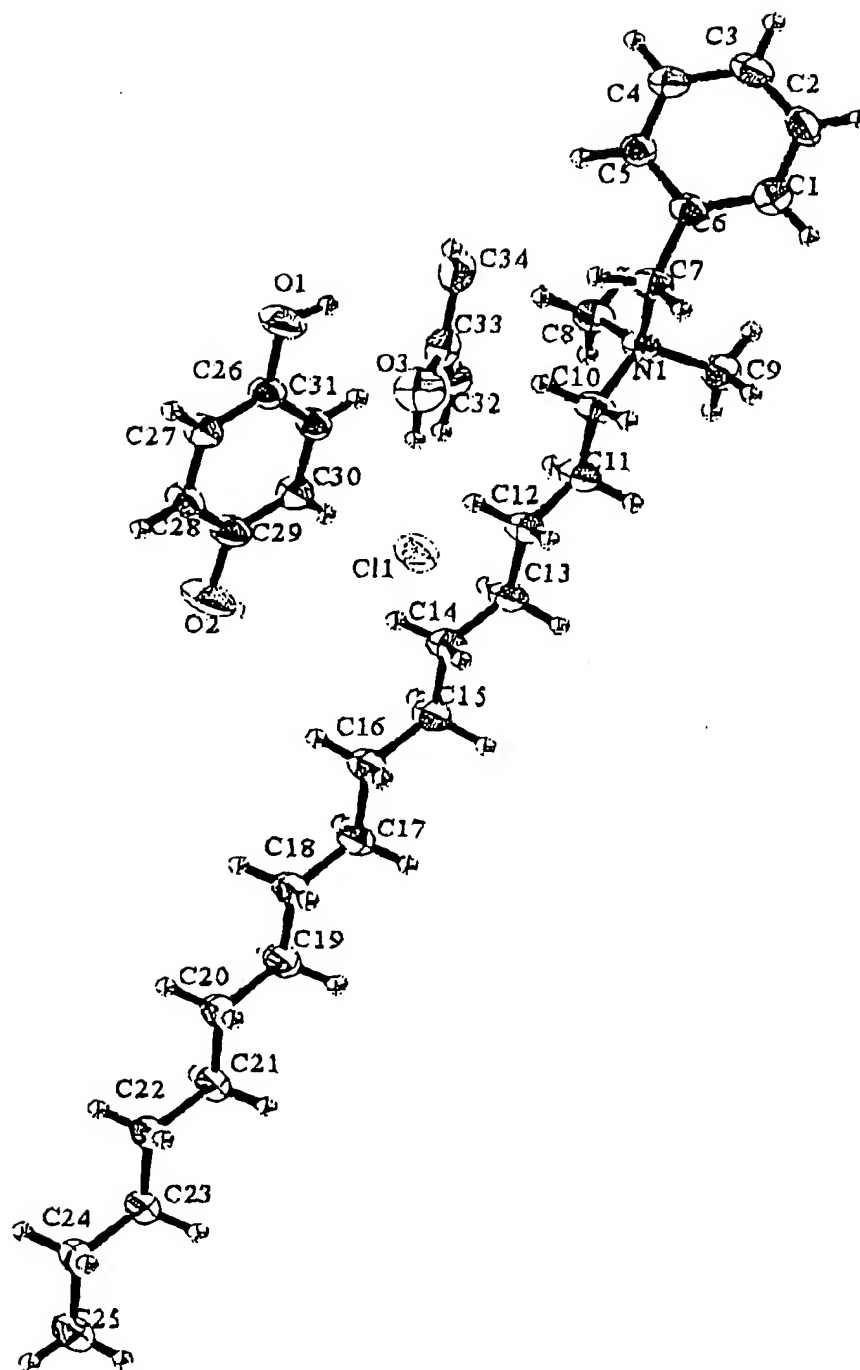
n = 15 Hexadecyldimethylbenzylammonium Chloride (CDBAC)

n=13 Tetradecyldimethylbenzylammonium Chloride (BZCL)

n-Dodecyl- $\beta$ -D-maltoside (DM)

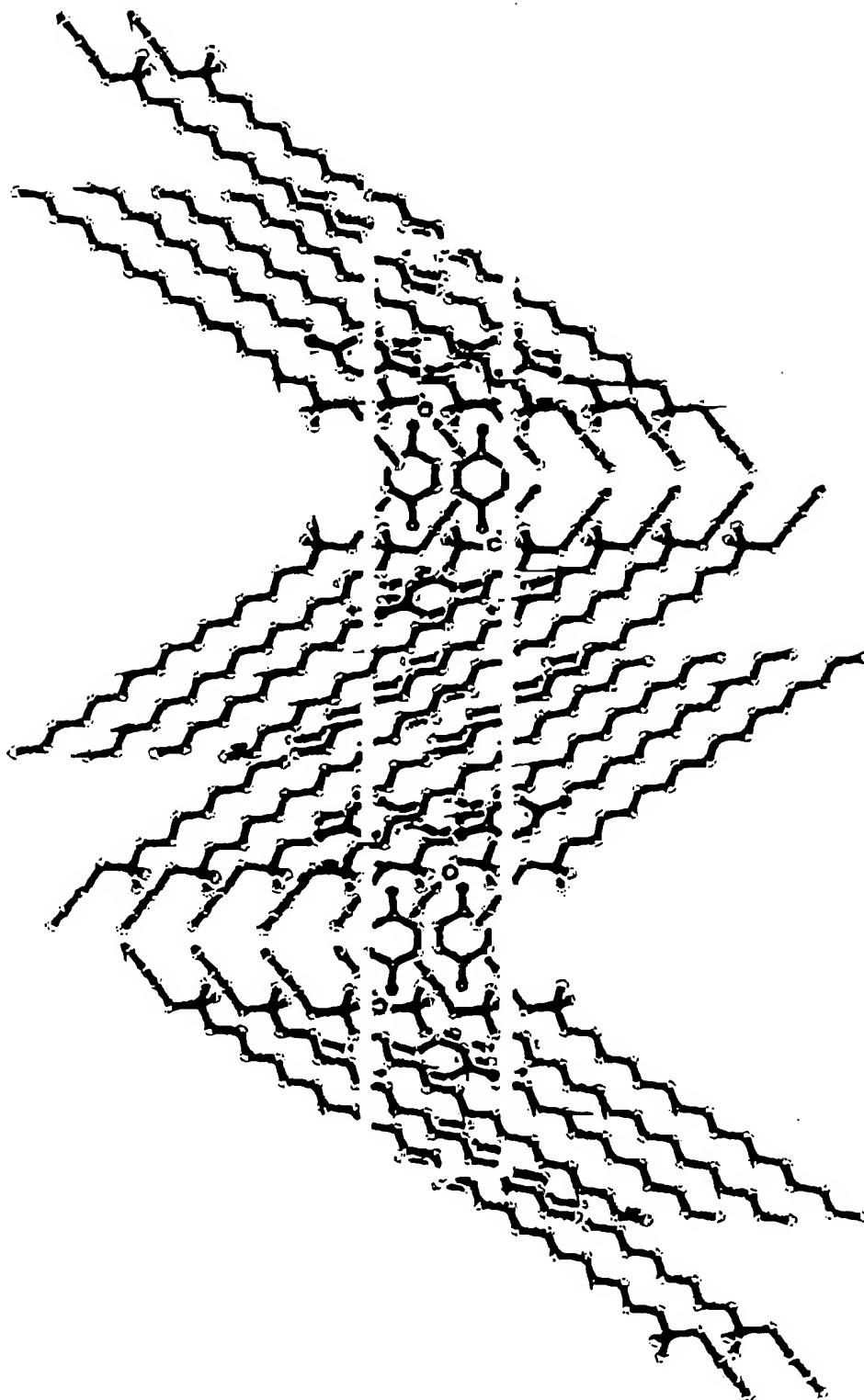
10/527078

Fig.2



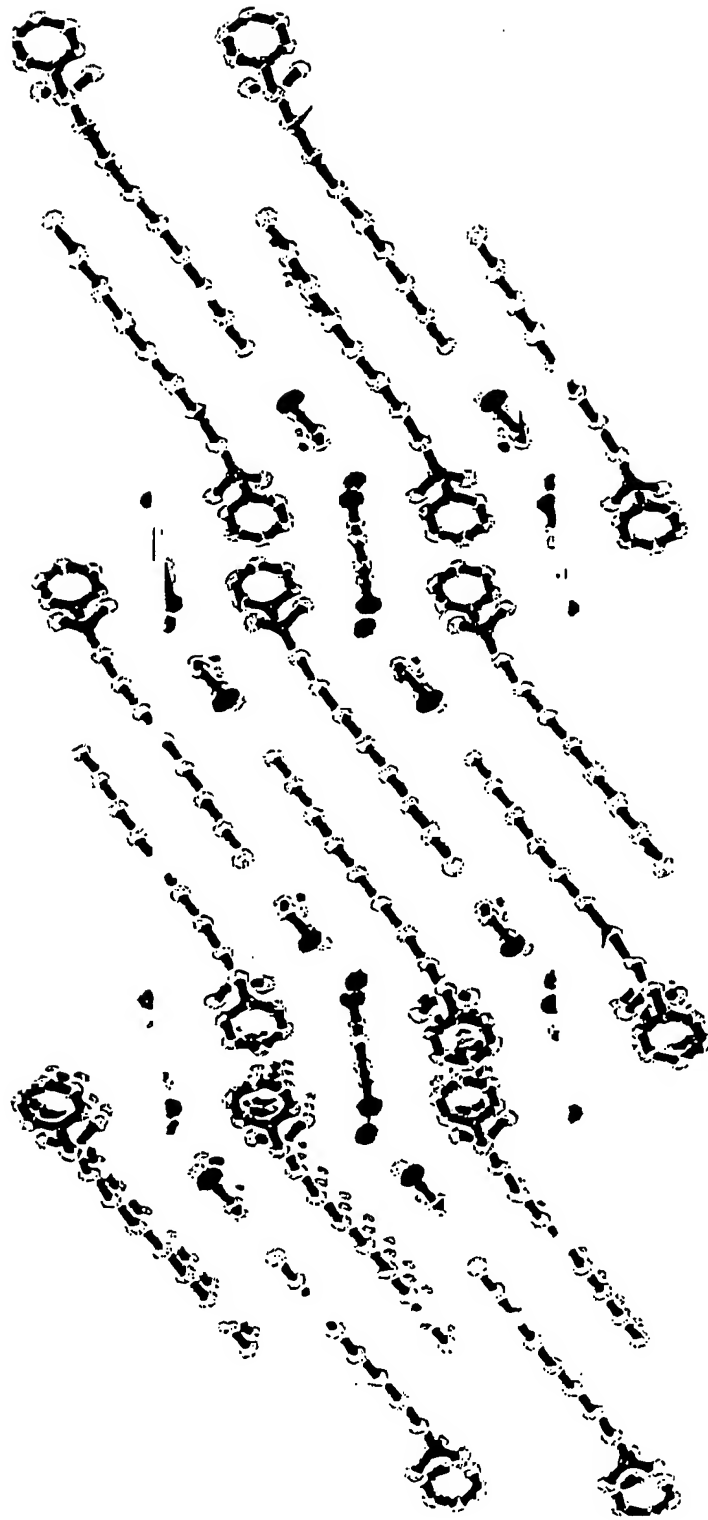
10/527078

Fig.3



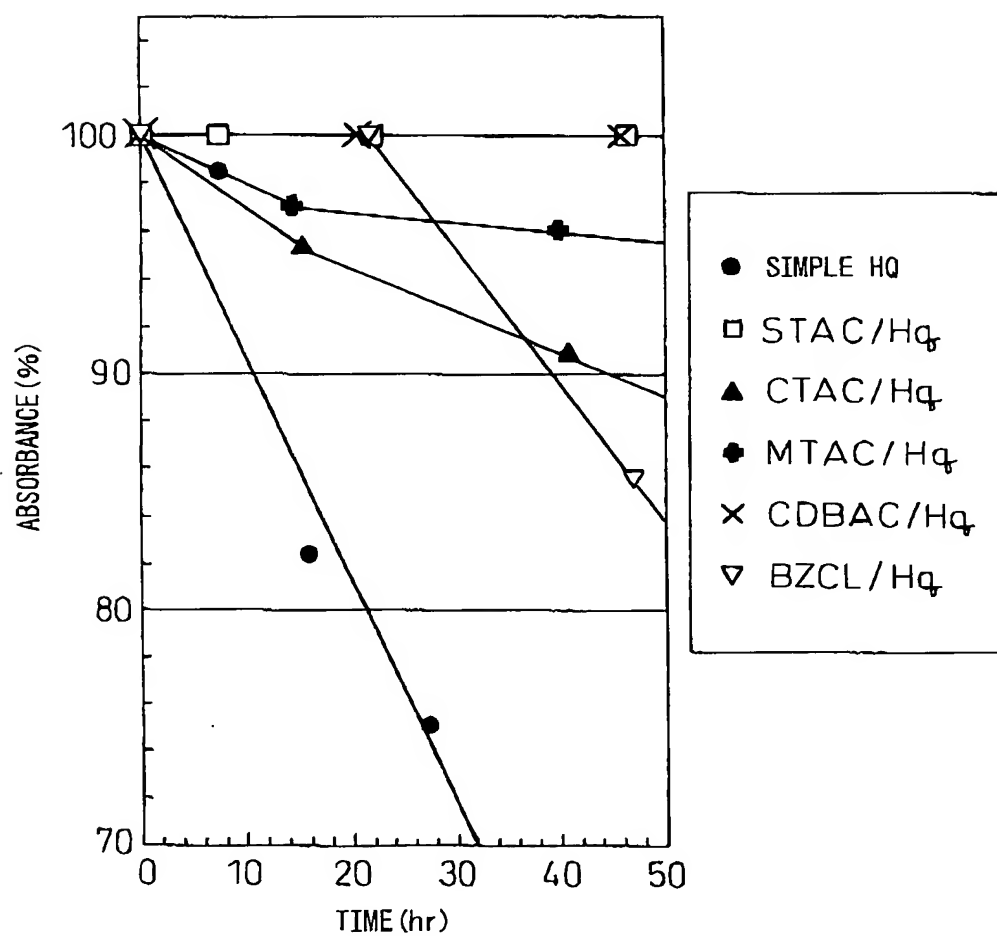
10/527078

Fig. 4



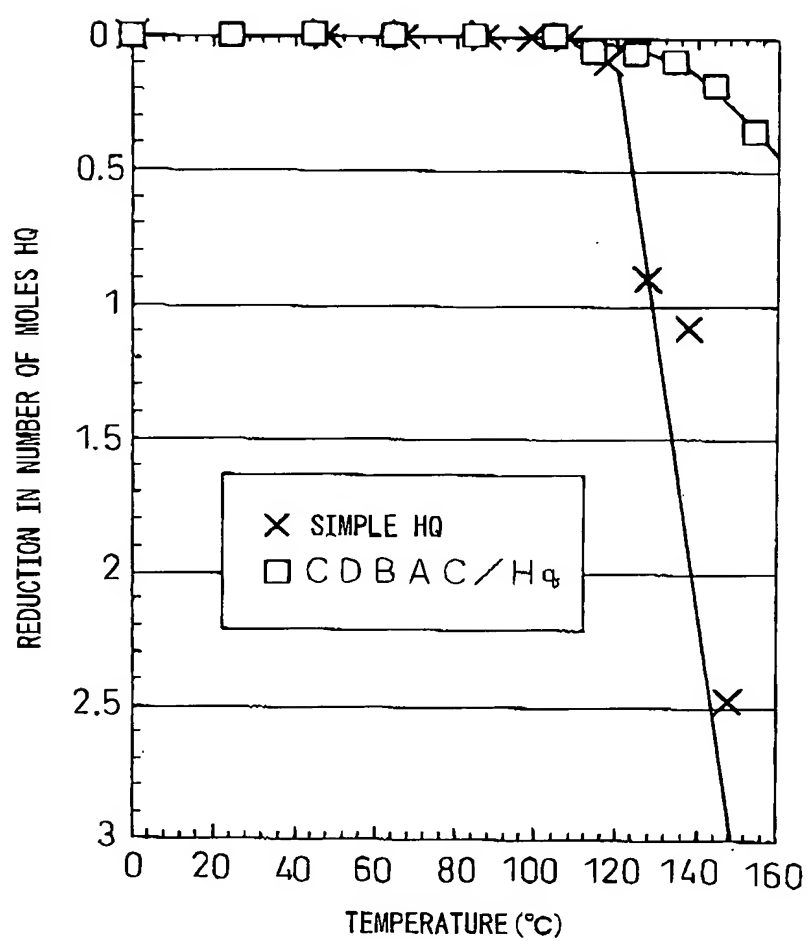
10/527078

Fig.5



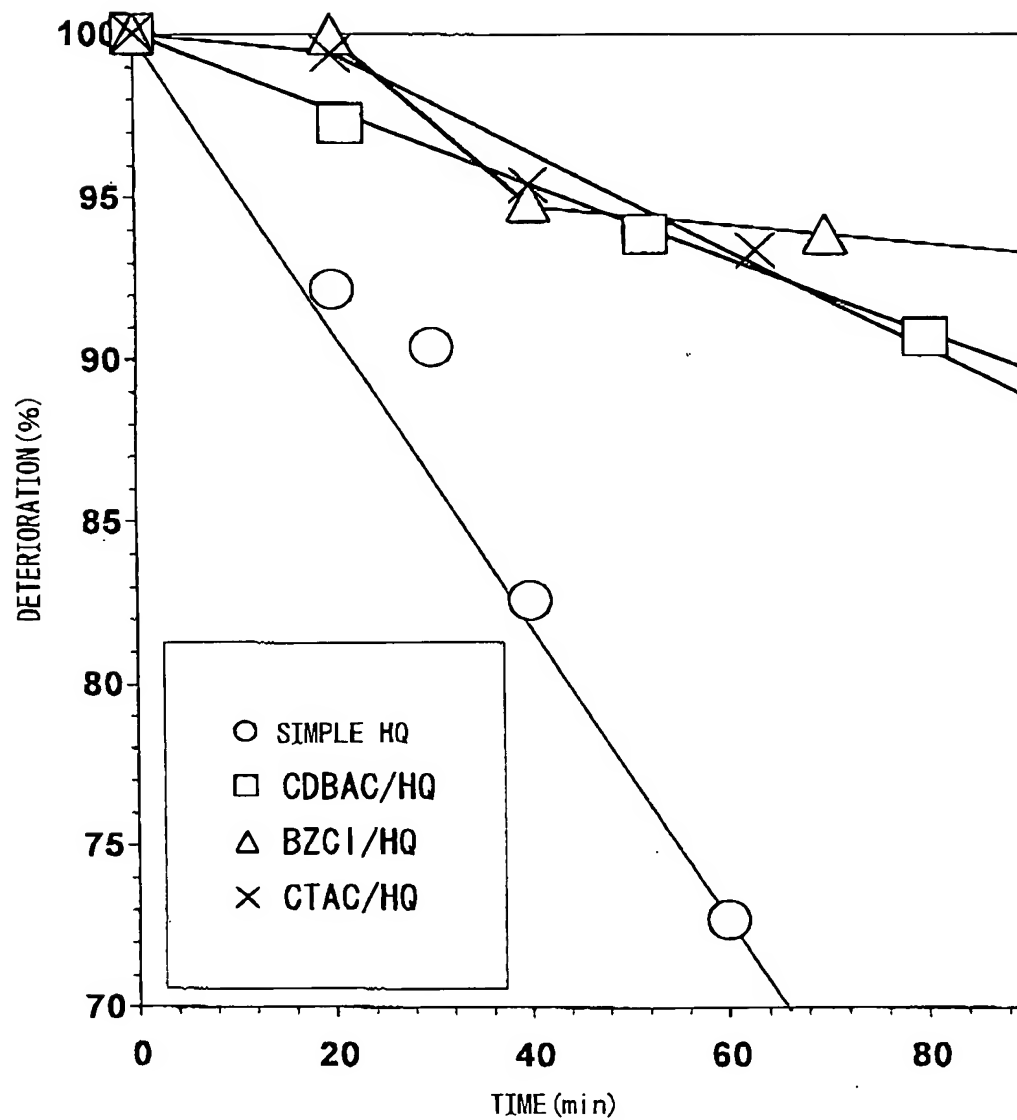
10/527078

Fig.6



10/527078

Fig. 7



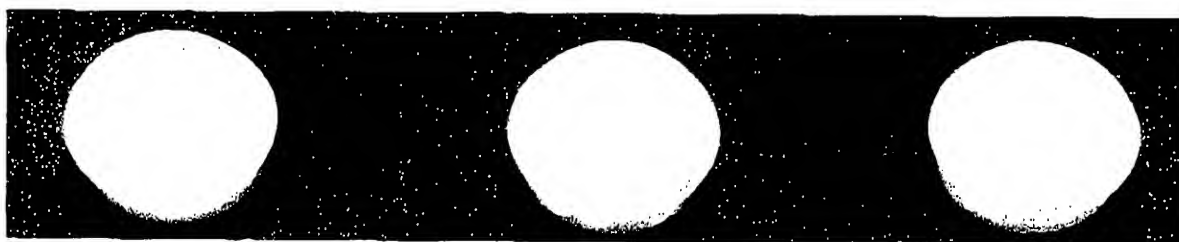
10/527078

Fig.8



SIMPLE OINTMENT

CDBAC/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)



CTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)

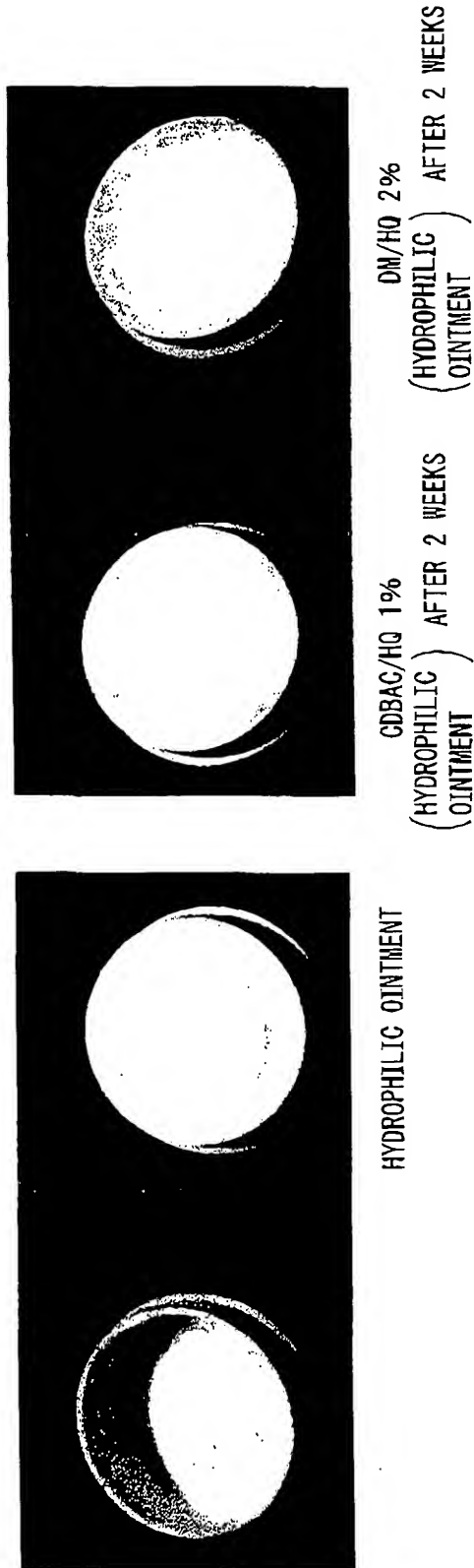
MTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)

LTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)



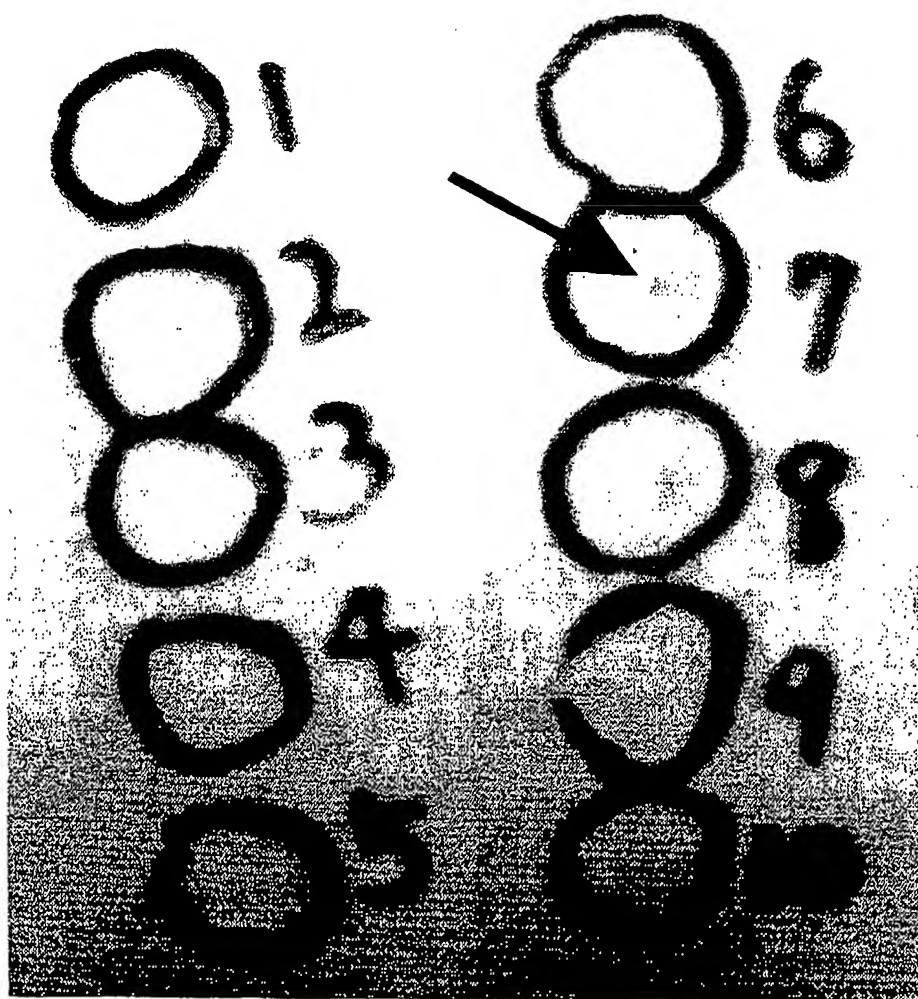
10/527078

Fig.9



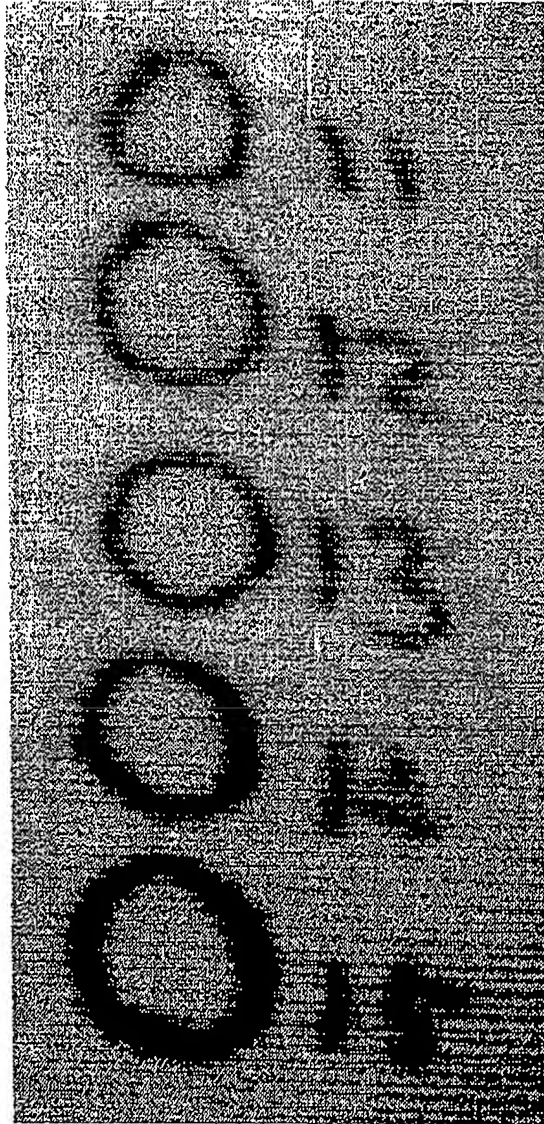
13/527078

Fig.10



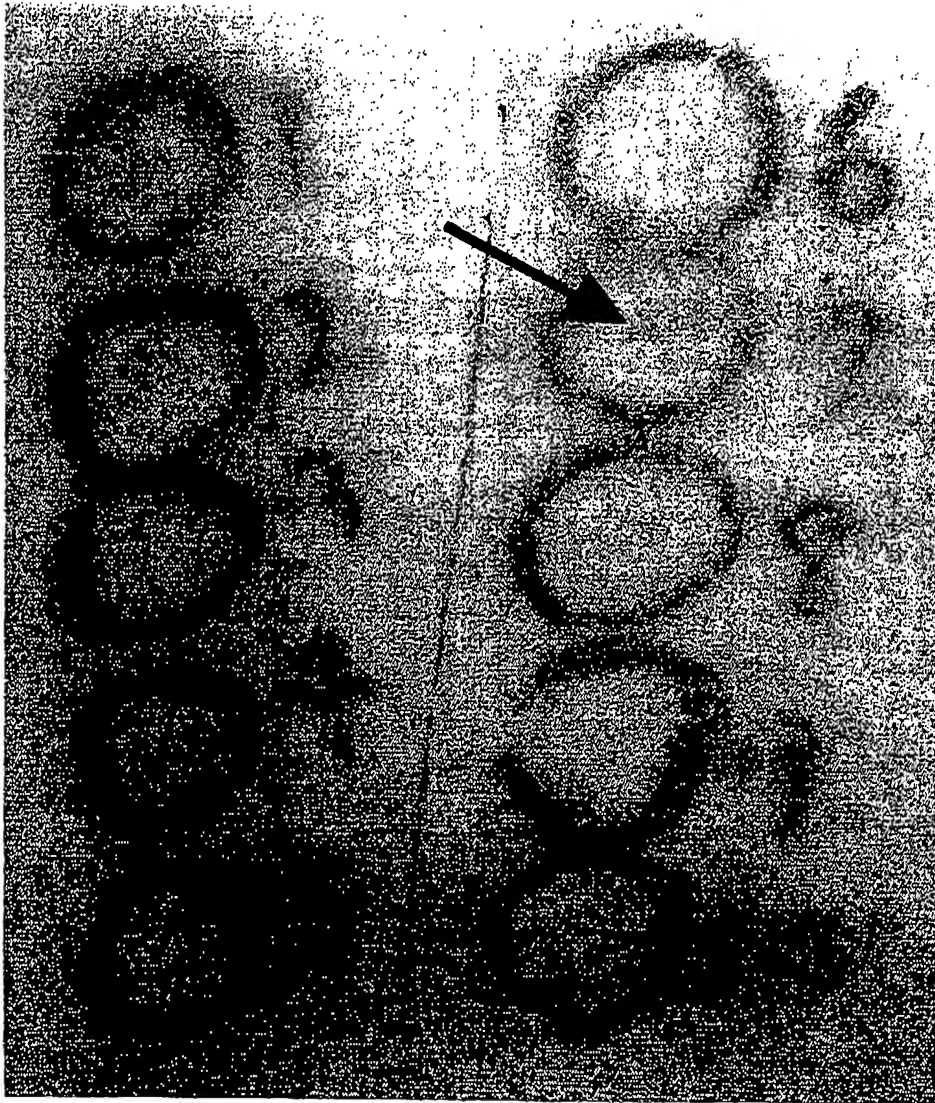
**10/527078**

Fig.11



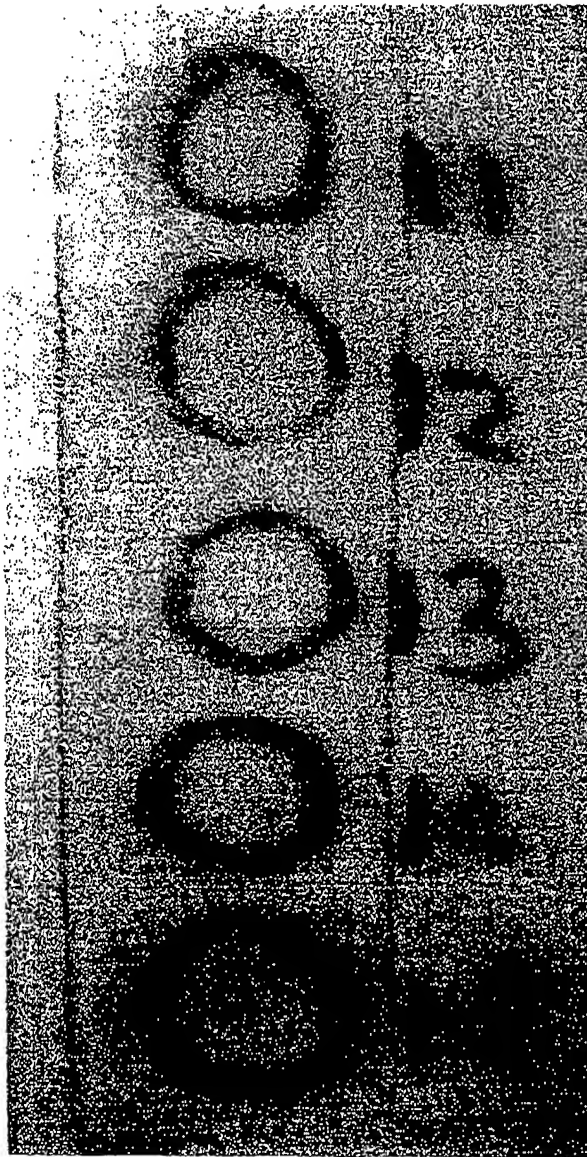
10/527078

Fig.12



10/527078

Fig.13



10/527078

Fig.14

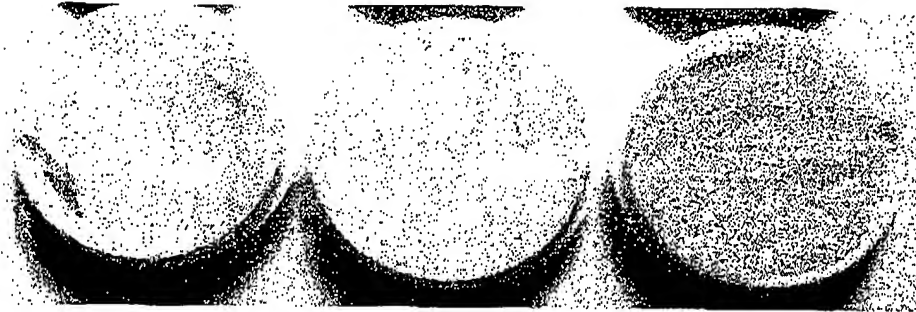


Fig.15



13/527078

Fig.16

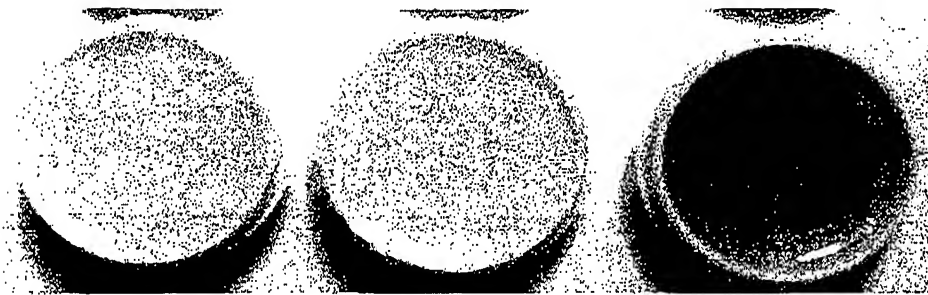
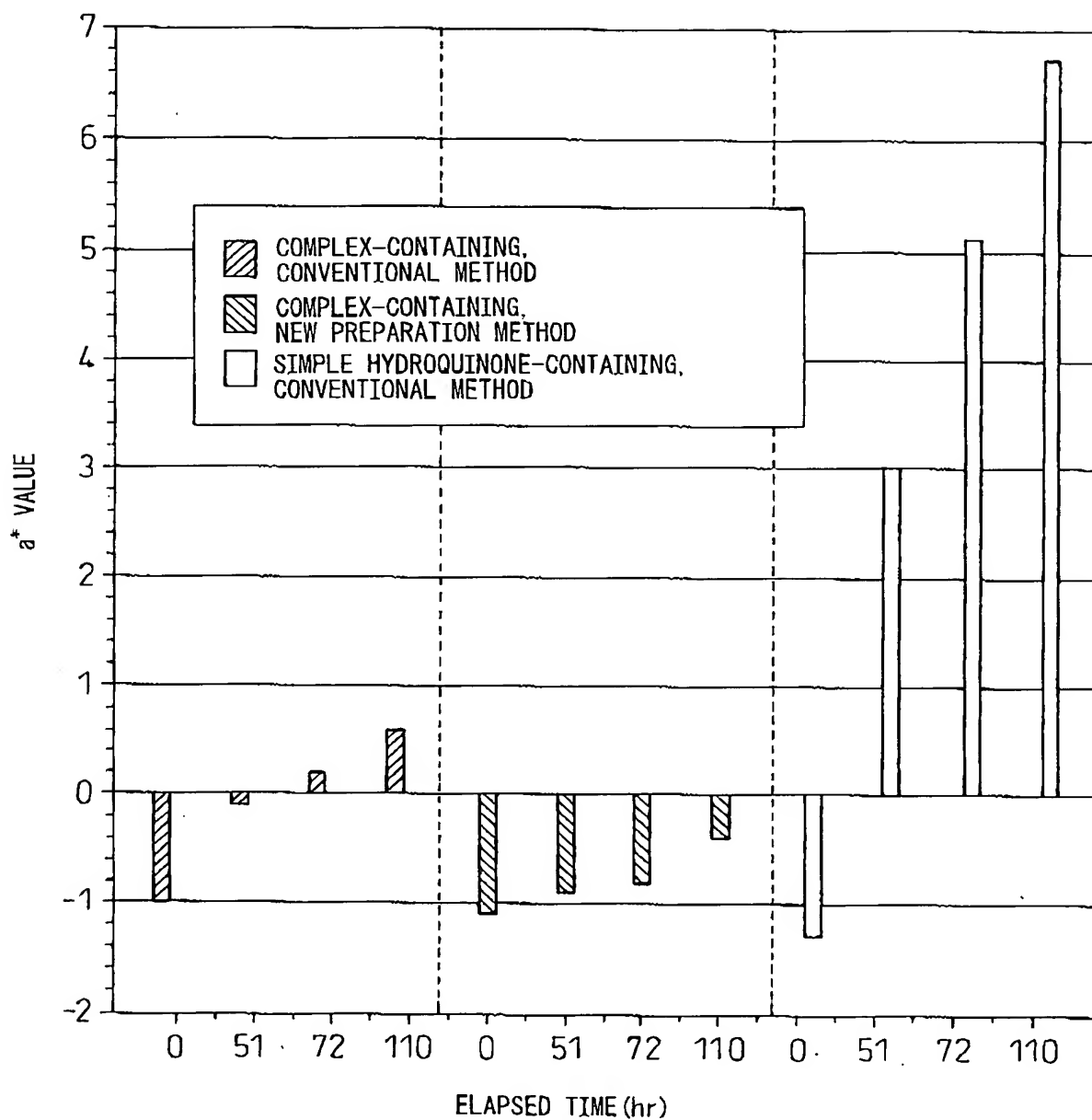


Fig.17



10/527078

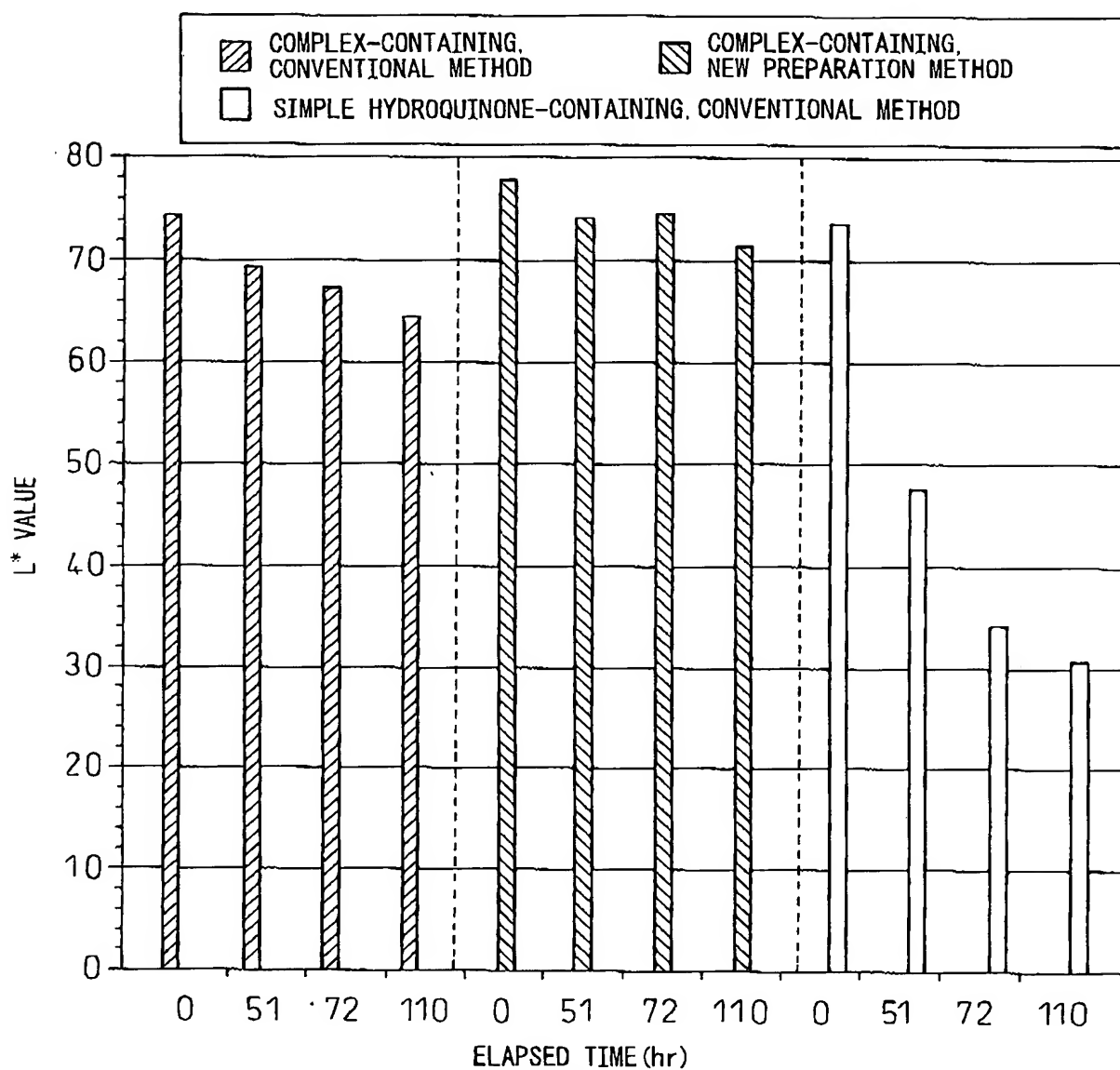
Fig.18





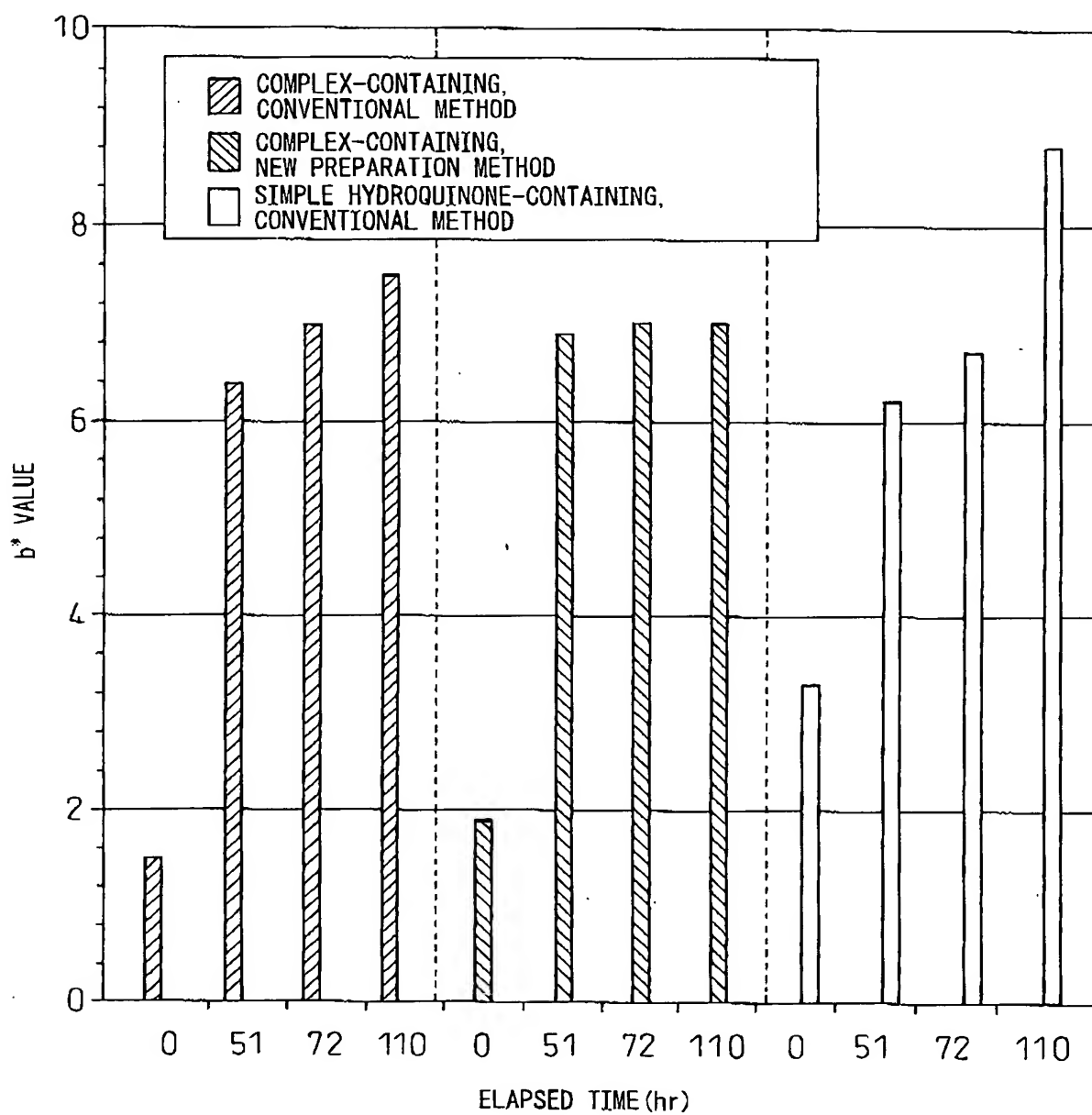
10/527078

Fig.19



10/527078

Fig.20



10/527078

Fig.21

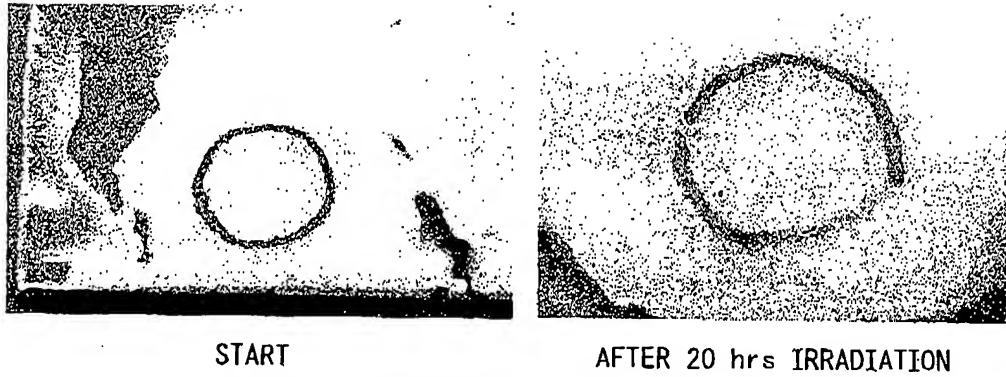


Fig.22

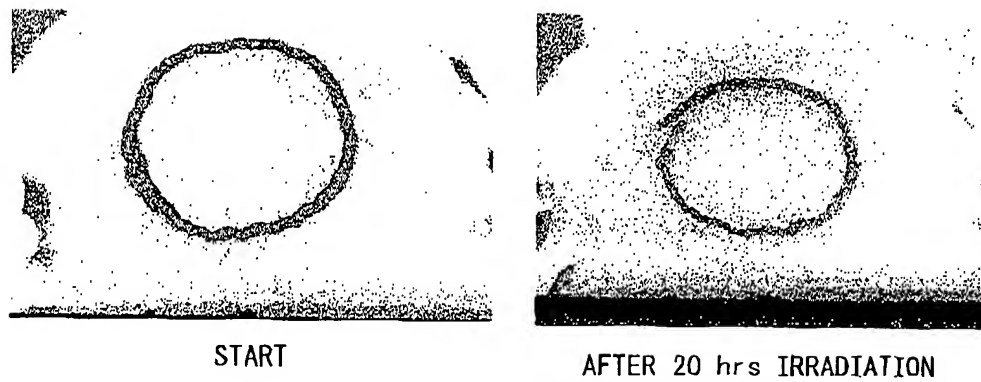
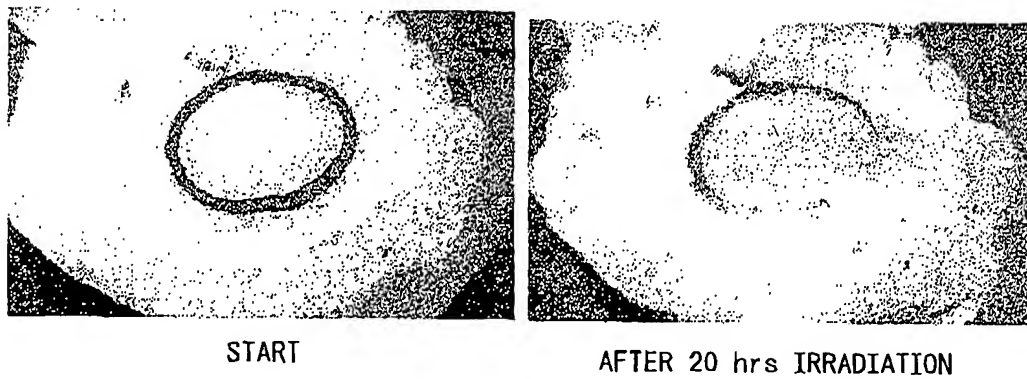


Fig.23



10/527078

Fig.24

DIFFERENTIAL  
COLORIMETRY  
VALUE

SAMPLE	L* VALUE	a* VALUE	b* VALUE
	START→20hr	START→20hr	START→20hr
(1) COMPLEX-CONTAINING NEW PREPARATION CREAM	85.0 → 79.9	-0.4 → 4.2	4.8 → 6.6
(2) COMPLEX-CONTAINING ORDINARY EMULSIFICATION METHOD CREAM	85.0 → 79.9	-0.4 → 4.8	5.0 → 9.7
(3) SIMPLE HYDROQUINONE -CONTAINING ORDINARY EMULSIFICATION METHOD CREAM	85.2 → 77.7	3.0 → 6.3	5.2 → 12.0

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**